

WHAT IS CLAIMED IS:

1. An image display apparatus responding to diverse video signals having different display conditions, the image display apparatus comprising:

a frequency characteristic adjustment module that adjusts a frequency component of an analog video signal included in a supplied video signal;

an A/D conversion module that converts the analog video signal adjusted by the frequency characteristic adjustment module into a digital video signal; and

an image display module that displays a resulting image based on the converted digital video signal,

wherein the frequency characteristic adjustment module comprises:

a filter unit that is capable of varying the frequency characteristic;

a display condition detection unit that detects the display condition proper to the supplied video signal; and

a filter control unit that controls the frequency characteristic of the filter unit according to the detected display condition.

2. An image display apparatus in accordance with claim 1, wherein the display condition detection unit detects the display condition proper to the supplied video signal, based on statuses of a horizontal synchronizing signal and a vertical synchronizing signal included in the supplied video signal.

3. An image display apparatus in accordance with claim 2, wherein the filter control unit controls the frequency characteristic of the filter unit, based on a frequency of a fundamental of the analog video signal defined by the detected display condition.

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4. An image display apparatus in accordance with claim 3, wherein the filter control unit controls the frequency characteristic of the filter unit to allow passage of at least a triple harmonic component having a frequency of 3 times the frequency of the fundamental, when the supplied video signal is a video signal supplied from the computer.

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5. An image display apparatus in accordance with claim 4, wherein the filter unit comprises:

multiple filters having different frequency characteristics; and

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a selector that selects one filter among the multiple filters, and

the filter control unit controls the selector to select a filter of a specific frequency characteristic corresponding to the detected display condition.

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6. An image display apparatus in accordance with claim 5, the image display apparatus is a projector that projects an image.

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7. An image display apparatus in accordance with claim 1, wherein the filter control unit controls the frequency characteristic of the filter unit, based on a frequency of a fundamental of the analog video signal defined by the detected display condition.

8. An image display apparatus in accordance with claim 1, wherein the filter unit comprises:

multiple filters having different frequency characteristics; and

5 a selector that selects one filter among the multiple filters, and

the filter control unit controls the selector to select a filter of a specific frequency characteristic corresponding to the detected display condition.

10 9. An image display apparatus in accordance with claim 2, wherein the filter unit comprises:

multiple filters having different frequency characteristics; and

a selector that selects one filter among the multiple filters, and

15 the filter control unit controls the selector to select a filter of a specific frequency characteristic corresponding to the detected display condition.

10. An image display apparatus in accordance with claim 3, wherein the filter unit comprises:

20 multiple filters having different frequency characteristics; and

a selector that selects one filter among the multiple filters, and

the filter control unit controls the selector to select a filter of a specific frequency characteristic corresponding to the detected display condition.

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11. An image display apparatus in accordance with claim 1, the

image display apparatus is a projector that projects an image.

12. An image display apparatus in accordance with claim 2, the image display apparatus is a projector that projects an image.

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13. An image display apparatus in accordance with claim 3, the image display apparatus is a projector that projects an image.

14. An image display apparatus in accordance with claim 4, the image display apparatus is a projector that projects an image.

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